

MARKER DEVICE FOR SYSTEM OF RADIO FREQUENCY IDENTIFICATION

Publication number: RU2176092
Publication date: 2001-11-20
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Classification:
- international: G01S13/79; G01S13/00; (IPC1-7) G01S13/79
- European:
Application number: RU20000118105 20000711
Priority number(s): RU20000118105 20000711

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Abstract of RU2176092

radiolocation equipment. SUBSTANCE: invention refers to marker devices for systems of radio frequency identification of mobile and immobile objects. Proposed marker device has board carrying receiving and emitting antennas and unit based on surface acoustic waves coming in the form of substrate of piezoelectric material on which input and output electrode converters on surface acoustic waves are positioned. Marker device is also fitted with receiving, output and matching inductance coils placed on board. Receiving inductance coil is linked with one end to receiving antenna manufactured in the form of quarter-wavelength vibrator and with another end to first matching inductance coil which other end is linked to input of input electrode converter based on acoustic waves whose output is connected via current-conducting track located on board to input of output electrode converter on surface acoustic waves. Output of the latter is connected via second matching inductance coil and output inductance coil to emitting antenna manufactured in the form of quarter-wavelength vibrator. Output electrode converter based on surface acoustic waves has phase-coding capability. EFFECT: increased range of marker device. 4 dwg

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